

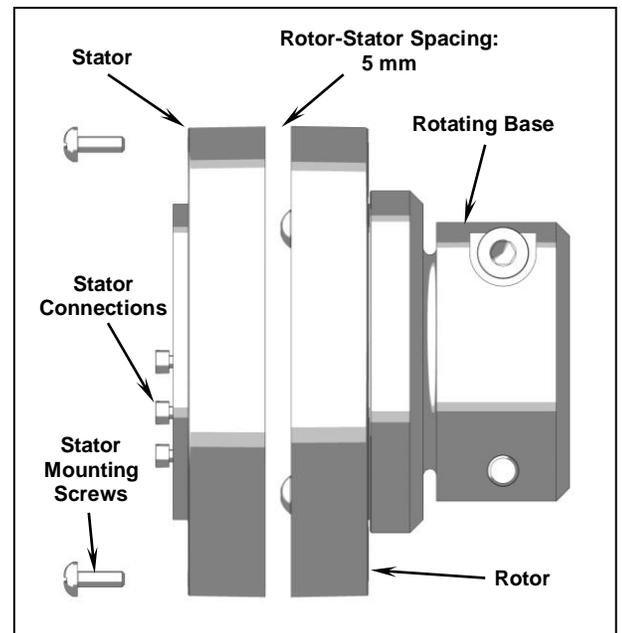
RT362 Rotary Temperature Transmitter (852-106)

The RT362 is a two-channel temperature measurement system designed to monitor temperature on heated godet roll shells. The system features Dienes-compatible output signals for temperature control on SwissTex (Rieter) machines. Error detection modes protect the heater from damage and expedite troubleshooting in the event of a sensor or other failure. Digital circuitry from sensor input to signal output and generous clearance between the rotating and stationary components make the RT362 a robust and reliable element in the temperature feedback loop.

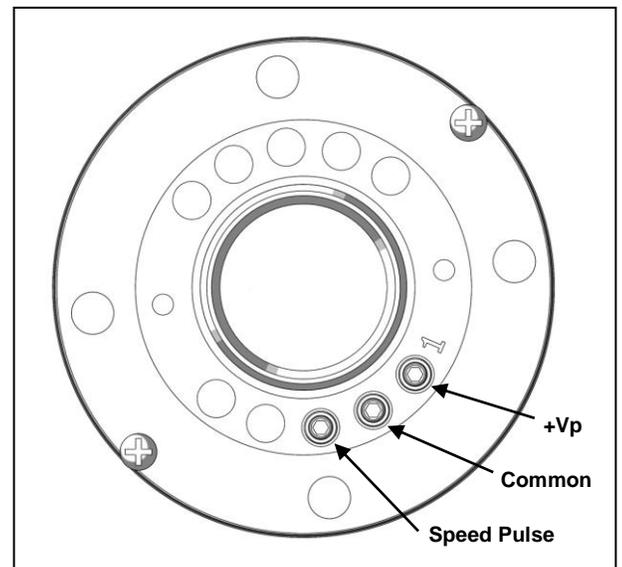


Installation

1. Remove existing stator and rotor from motor.
2. Slide RT362 Rotor on to shaft so that the connector mates securely with the RTD connector.
3. Tighten the two screws in the rotating base securely and evenly (alternate between them frequently).
4. Attach RT362 stator to the stator frame using supplied fasteners through mounting holes in frame.
5. Reinstall the stator and frame assembly onto the roll assembly.
6. Verify Rotor-Stator spacing (5mm nominal).
7. Complete motor assembly.
8. Connect the wires from the machine controller to the 3 terminals of the RT362 Stator.
(1 = +Vp, 2 = Common, 3 = Speed pulse)



Installation Diagram



Rotor/RTD Connections

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Troubleshooting

Frequency Output, Hz	Displayed Output	Error Description
809.17	350° C	RTD Low: RTD is measuring less than 100 ohms (0°C for PT100) or is shorted. Output specific to zone in error.
820.86	360° C	RTD High: RTD is measuring more than 221 ohms (325°C for PT100) or is disconnected. Output specific to zone in error.
867.04	400° C	Internal Reference Resistor Low: Error in the Rotor circuit. Output common to all zones.
878.45	410° C	Internal Reference Resistor High: Error in the Rotor circuit. Output common to all zones.

Specifications

*Denotes preliminary specifications

Rotor:	Number of sensors:	2
	Sensor connection:	Connector, Fischer PN: D 102 A021
	Input sensor type:	PT100 RTD (100 ohm at 0°C, alpha = .00385)
	Sensor range:	0-300°C
	Speed:	10,000 RPM
Stator:	Output connection:	M3 SHCS to customer supplied ring lug wire terminals
	Output signals:	Frequency signal as current pulses on the power supply (Dienes curve: 362.48-749.86 Hz) Speed Pulse (2 pulses per revolution)
	Power Input:	11-18 VDC @ 30mA nominal, 50mA output pulse
General:	Accuracy (maximum error):*	±0.10%FS over 25-50°C ambient temperature range for 50-250°C RTD readings ±0.17%FS over 25-85°C ambient temperature range for 0-300°C RTD readings ±0.20%FS over 25-85°C ambient temperature range for 0-300°C RTD readings ±0.33%FS over operating temperature range for 0-300°C RTD readings
	Max Temp Coefficient:	±50ppm/°C over operating temperature range for 0-300°C RTD readings
	Operating Temperature:	0-100°C
	Humidity:	0 – 90% RH, non-condensing

This document is subject to change without prior notification.

Warranty

Binsfeld Engineering Inc. warrants this product to be free from defects for a period of two years from the date of delivery to the original purchaser and that its products will conform to specifications and standards published by Binsfeld Engineering Inc. Upon evaluation by Binsfeld Engineering Inc., any product found to be defective will be replaced or repaired at the sole discretion of Binsfeld Engineering Inc. Our warranty is limited to the foregoing. Binsfeld Engineering Inc. disclaims any warranty of merchantability or fitness for intended purpose.
